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**APPLICATION
FOR
UNITED STATES
LETTERS PATENT**

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FOR: AN APPARATUS AND A METHOD FOR
COLLECTION OF A PROBLEM PART

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FOSTER TETBOB60

SPECIFICATION

An apparatus and a method for collection of a problem part

5 BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to an apparatus and a method for collection of a problem part. More particularly, it relates to an apparatus and a method for collection of a problem part, which enable efficient collection of a problem part when a design modification is made to a problem part in a design drawing by using a CAD system.

2. Related Art

In the past, collection of problem parts in a design of a product was performed manually. However, in the method of the prior art, there were the problems of missing an important modification information and not being able to collect and process data accurately.

Accordingly, it is an object of the present invention, in order to improve the drawbacks of the prior art as noted above, to provide a novel apparatus for collection problem part, a method therefor, which, when a designer makes a design modification, automatically detects a problem part and automatically collects a problem part, without human intervention.

SUMMARY OF THE INVENTION

In order achieve the above-noted objects, the present invention adapts the following basic technical constitution.

A first aspect of an apparatus according to the present invention is a bug collection apparatus for use when a design modification is made to a bug in a drawing designed by using a computer aided design system, the apparatus comprising: a first means for detecting whether the modification to the bug exceeds a pre-established criterion, and a second means for collecting and recording a bug information corresponding to the modification when the first means detecting that the modification exceeds the pre-established criterion.

In the second aspect of an apparatus according to the present invention, the first means and the second means are provided separately from one another, the bug collection apparatus further comprising a third means for sending the bug information from the first means to the second means.

A first aspect of a method of the present invention is a method for a bug collection for use when a design modification is made to a bug in a drawing designed by using a computer aided design system, the method comprising the steps of: detecting whether or not the modification to the bug exceeds a pre-established criterion, and collecting a bug information corresponding to the modification when an information including the modification exceeding the pre-established criterion is detected in the detecting step.

A second aspect of a method of the present invention is a method for a bug collection for use when a design modification is made to a bug in a drawing designed by using a computer aided design system, the method comprising the steps of: detecting whether or not the modification to the bug exceeds a pre-established criterion, sending a bug

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the present invention.

parts of the present invention.

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detailed below, with references made to relevant accompanying

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when a design modification is made to a problem part

comprising: a first means (detection means) 4 for detecting whether the modification to the bug exceeds a pre-established criterion, and a second means (collection means) 5 for collecting and recording a bug information corresponding to the modification when the first means 4 detecting that the above modification exceeds the pre-established criterion.

The detection means 4 and the collection means 5 are provided separately one another, and the bug information detected by the detection means 4 is sent to the collection means 5 from the detection means 4.

Additionally, these drawings show a method for a bug collection for use when a design modification is made to a bug in a drawing designed by using a computer aided design system 1, this method comprising the steps of: detecting whether or not the modification to the bug exceeds a pre-established criterion, and collecting a bug information corresponding to the modification when an information including the modification exceeding the pre-established criterion is detected in the detecting step.

The present invention is described in further detail below.

Referring to Fig. 1, in the case in which a design modification is performed by using a CAD system 1, the content of that modification is written into the modification information file 2. If this information includes modification that exceeds a pre-established criterion, this modification will be regarded as the modification corresponding to a bug, so that this bug information will be sent to a collecting means 5 by means of a mail transmission 3, so that the bug information

The present invention is described below in terms of the flowchart of Fig. 3.

20 The change information 2 includes character
information.

25 By adopting the configuration described in detail above, the present invention can perform automatic collection of design bug information. Furthermore, it features simple configuration and is easily implemented.